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MISCELLANEOUS.

PROCEEDINGS OF THE STATISTICAL SOCIETY OF LONDON.

Fourth Ordinary Meeting, 1848-9. Monday, 15th Feb., 1849.

Right. Hon. Holt Mackenzie, Vice-President, in the Chair.

The following Gentlemen were elected Fellows:—

George Sowray, Esq. | Richard Bullen, Esq.

The following Paper was read:—

On the Commercial Progress of the Colonial Dependencies of the United Kingdom during the 20 years 1826-46. By John Towne Danson, Esq., F.S.S.

Fifth Ordinary Meeting, 1848-9. Monday, 19th March, 1849.

Right Hon. The Earl of Harrowby, President, in the Chair,

The following Paper was read:—

On the Distribution of the Various Classes of Crime in Comparison with the Diffusion of Education, and the Prevalence of other Moral Characteristics in the various Counties and Districts of England and Wales. By Joseph Fletcher, Esq., Hon. Sec., Statistical Society of London.

Sixth Ordinary Meeting, 1848-9. Monday, 16th April, 1849.

Lieut.-Col. W. H. Sykes, F.R.S., Vice-President, in the Chair.

The following Gentlemen were elected Fellows:—

Charles Baring Young, Esq. | Robert Power, M.D.

The following Papers were read:—

1. On the Relative Value of Averages derived from Different Numbers of Observations. By W. A. Guy, M.B., Hon. Sec., Statistical Society of London.
2. On the Influence of Different Occupations. By John Barton, Esq., F.S.S.

STATE OF THE PUBLIC HEALTH IN THE LAST QUARTER OF THE YEAR 1848.

“THE Quarterly Returns are obtained from 117 Districts, sub-divided into 582 Sub-Districts. *Thirty-six* Districts are in the Metropolis, and the remaining 81 comprise, with some agricultural Districts, the principal towns and cities of England. The population was 6,612,958 in 1841.”

It is gratifying to find that the mortality of the quarter has been below the
VOL. XII. PART II. N

average. Only 46,124 deaths have been registered. The deaths in the corresponding quarters of 1846 and 1847 were 53,055 and 57,925; so that, notwithstanding some increase of population, the decrease of deaths on 1847 is 11,801; on 1846 is 6,931. Taking the increase of population into account, the deaths are 2,571 below the average of the deaths in 9 preceding years.

The general mortality of the country was comparatively low in the five years of 1841-5; in the middle of 1846 epidemics set in, and proved fatal through the rest of 1846, through 1847, and the winter of 1848. A manifest improvement took place in the spring of the year 1848; the summer was of the average degree of health; and although cases of cholera have occurred in London and several districts during this quarter, the returns in the subjoined tables prove that the epidemic has hitherto produced no sensible effect on the mortality.

	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848
Deaths Registered in the December quarters of 10 years . . .	41,740	44,186	39,292	39,662	42,608	44,080	39,293	53,055	57,925	46,124
Deaths which would have been registered if the mortality had been uniform, and the numbers had increased from 1839 at the rate of 1·75 per cent. annually.	41,656	42,385	43,126	43,881	44,649	45,430	46,225	47,034	47,857	48,696
UNHEALTHY SEASONS Difference above the calculated number . .	84	1,801	..	..	..	..	..	6,021	10,068	..
HEALTHY SEASONS. Difference below the calculated number . .	..	..	8,834	4,219	2,041	1,350	6,932	..	..	2,571

Deaths Registered in each of the Four Quarters of the Ten Years 1839—1848, in 117 of the Districts of England and Wales.

Quarters ending	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848
March ..	42,410	46,376	46,967	44,903	43,748	46,136	49,996	43,850	56,105	57,710
June . . .	41,244	42,074	39,133	38,669	40,343	38,977	40,847	43,784	51,585	46,552
September	37,317	39,498	36,058	39,409	36,963	38,933	36,139	51,405	49,479	43,445
December	41,740	44,186	39,292	39,662	42,608	44,080	39,293	53,055	57,925	46,124
Total ..	162,711	172,134	161,450	162,543	163,662	168,126	166,275	192,044	215,094	193,831

ENGLAND. The number of registrars in England is 2,189. Hitherto only 582 registrars have made the returns from which the Quarterly Tables are compiled. It is proposed to publish the returns complete for the March quarter of 1849. The returns for the December quarter, 1848, have been procured, and although the notes refer chiefly to the large town districts, a brief summary of the deaths in the whole country may not be uninteresting. The facts returned by the registrars for 1848 have not yet been checked; but it is believed that they contain no errors which can affect the general results.

MORTALITY OF THE COUNTRY.

Quarterly Table of the Mortality in 117 of the Districts of England (including the Principal Towns), showing the Number of Deaths Registered in the Quarters ending December of the Four Years 1845-46-47-48.

Parts of Divisions and Districts.	Population 1841.	Deaths Registered in the Quarters ending Dec. 31st.				Parts of Divisions and Districts.	Population 1841.	Deaths Registered in the Quarters ending Dec. 31st.			
		Years.						Years.			
		1845.	1846.	1847.	1848.			1845.	1846.	1847.	1848.
Metropolis*.						North Midland Division.					
West Districts...	301,326	1,694	1,826	2,735	2,123	Leicester	50,932	354	460	345	401
North Districts...	376,610	1,961	2,413	3,623	2,641	Lincoln	36,110	158	198	215	231
Central Districts...	374,711	2,260	2,390	3,555	2,366	Nottingham...	53,089	304	352	466	320
East Districts...	393,247	2,638	2,901	4,423	3,329	Basford	59,634	252	373	270	316
South Districts...	502,475	3,285	3,691	5,239	4,666	Derby	35,015	188	221	310	220
Total†	1,948,369	11,838	13,221	19,605†	14,725	Total	234,771	1,256	1,604	1,606	1,488
South Eastern Division.						North Western Division.					
Maidstone	32,310	175	264	205	207	Stockport	85,672	437	793	571	641
Brighton	46,742	251	375	300	467	Macclesfield	56,018	298	425	443	410
Isle of Wight	42,547	16*	201	179	203	Great Brough- ton (including Chester)	49,085	235	394	270	319
Portsea Island	53,036	347	390	476	492	Liverpool	223,054	1,982	2,735	3,725	2,412
Winchester	23,044	96	163	124	127	West Derby (adjoining Liverpool)	88,652	673	1,111	1,122	1,030
Windsor	20,502	86	87	90	106	Blackburn	75,091	433	852	606	427
Total	218,181	1,124	1,470	1,374	1,592	Preston	77,189	551	968	636	424
South Midland Division.						Rochdale	60,577	335	492	455	315
St. Albans	17,051	75	91	76	105	Bury	77,496	439	717	594	416
Wycombe	34,150	135	182	170	234	Bolton	97,519	821	985	844	631
Oxford	19,701	90	189	96	91	Wigan	66,032	401	674	552	544
Northampton	28,103	140	181	205	169	Prescott	43,739	289	510	365	268
Bedford	31,767	131	327	245	165	Chorlton	93,736	692	983	944	892
Cambridge	24,453	112	151	140	152	Manchester	192,408	1,413	2,219	1,651	1,511
Total	155,225	683	1,121	932	916	Salford	70,228	451	732	623	566
Eastern Division.						Ashton and Old- ham [ham]	173,964	1,018	1,487	1,521	1,178
Colchester	17,790	85	153	127	110	Total	1,530,460	10,523	16,176	15,481	12,124
Ipswich	25,254	145	212	167	206	York Division.					
Norwich	61,846	304	361	319	311	Sheffield	85,076	527	803	734	591
Yarmouth	24,031	99	133	145	153	Huddersfield	107,140	574	959	708	649
Total	128,921	633	859	758	780	Halifax	109,175	695	671	603	620
South Western Division.						Bradford	132,164	1,039	1,086	895	833
Devizes	22,130	102	137	129	129	Leeds & Hunslet	168,667	891	1,290	1,413	1,082
Dorchester	23,390	95	136	101	109	Hull	41,130	261	404	469	319
Exeter	31,333	204	267	175	165	York	47,779	231	343	522	321
St. Thomas	47,105	183	276	177	224	Total	691,131	4,218	5,656	5,364	4,415
Plymouth	36,527	180	306	306	337	Northern Division					
Redruth	48,062	184	268	197	240	Sunderland	56,226	378	357	496	400
Penzance	50,100	214	269	191	255	Gateshead	38,747	215	426	233	219
Bath	69,232	341	413	429	378	Tynemouth	55,625	325	498	326	320
Total	327,869	1,503	2,072	1,705	1,837	Newcastle-on- Tyne	71,850	434	886	904	420
Western Division.						Carlisle	36,084	183	327	279	192
Bristol	64,298	368	467	481	510	Cockermouth	35,676	173	262	259	153
Clifton	66,233	378	403	419	326	Kendal	34,634	213	26*	155	202
Stroud	38,920	171	217	174	214	Total	328,902	1,921	3,026	2,712	1,906
Cheltenham	40,221	194	221	170	210	Welsh Division.					
Hereford	34,427	164	199	136	180	Abergavenny	50,834	235	333	311	354
Shrewsbury	21,529	99	151	158	147	Pontypool	25,037	168	149	153	141
Worcester	27,139	149	198	176	156	Merthyr Tydvil	52,664	334	388	483	379
Kidderminster	29,408	15*	145	150	135	Newtown	25,958	123	145	114	123
Dudley	66,023	475	768	983	515	Wrexham	39,542	177	323	217	302
Walsall	34,274	225	300	306	189	Holywell	40,787	184	264	209	195
Wolverhampton	80,722	403	636	815	496	Anglesey	35,105	163	206	158	149
Widestant	32,669	171	323	288	215	Total	273,127	1,384	1,812	1,645	1,653
Birmingham	138,187	777	1,338	1,795	831	Ditto, exclu- sive of the Metropolis	4,664,589	27,455	39,834	38,320	31,399
Aston	50,928	230	444	520	306	Grand Total...	6,612,938	39,298	53,055	57,925	46,124
Coventry	31,023	193	223	210	178						
Total	776,002	4,210	6,038	6,743	4,688						

* The mortality of the districts of Wandsworth and Lewisham, and sub-district of Hampstead, is included in the above table, in each of the four years, though the deaths in Wandsworth did not appear in the Weekly Metropolitan Returns till 1844; nor those of Lewisham and Hampstead till 1847.

† The December quarter of 1847 contains the deaths in 14 weeks: deducting 1 week (the 6th in the quarter) for the sake of comparison with the corresponding quarter of former years, the number of deaths in the West, North, Central, East and South Districts will be, respectively, 2,384, 3,416, 3,336, 4,202, 4,955. London 18,558.

‡ The last quarter of 1848 for London ended December 30th.

§ The former district of Ashton is now divided into Ashton and Oldham, both included in the present return.

¶ The former district of Leeds is now divided into Leeds and Hunslet, both included in the present return.

MORTALITY OF THE METROPOLIS.

A Table of the Mortality in the Metropolis, showing the Number of Deaths from all Causes, in the Quarters ending December of the Four Years, 1845-46-47-48.

CAUSES OF DEATH.	Quarters ending Dec.*				CAUSES OF DEATH.	Quarters ending Dec.*			
	1845.	1846.	1847.	1848.		1844.	1845.	1846.	1847.
ALL CAUSES.....	11,338	13,221	19,605	14,725	III. Scrofula.....	65	71	84	92
SPECIFIED CAUSES.....	11,631	12,986	19,571	14,679	Tabes Mesenterica.....	162	177	265	174
I. Zymotic Diseases.....	2,744	2,211	5,825	5,137	Phthisis or Consumption.....	1,382	1,685	1,873	1,450
SPORADIC DISEASES.					IV. Hydrocephalus.....	386	342	408	342
II. Dropsy, Cancer, and other Diseases of uncertain or variable Seat.....	507	580	629	605	Cephalitis.....	143	148	154	115
III. Tubercular Diseases.....	1,995	2,275	2,630	2,058	Apoplexy.....	272	347	349	336
IV. Diseases of the Brain, Spinal Marrow, Nerves, and Senses.....	1,341	1,617	1,742	1,465	Paralysis.....	213	267	307	249
V. Diseases of the Heart and Blood Vessels.....	417	572	573	479	Delirium Tremens.....	33	42	45	34
VI. Diseases of the Lungs and of the other Organs of Respiration.....	2,127	2,568	4,144	2,064	Chorea.....		1	1	1
VII. Diseases of the Stomach, Liver, and other Organs of Digestion.....	698	861	964	765	Epilepsy.....	68	77	90	73
VIII. Diseases of the Kidneys, &c.....	140	141	190	141	Tetanus.....	6	6	5	4
IX. Childbirth, Diseases of the Uterus, &c.....	141	227	222	106	Insanity.....	30	18	26	24
X. Rheumatism, Diseases of the Bones, Joints, &c.....	89	125	139	105	Convulsions.....	450	548	592	477
XI. Diseases of the Skin, Cellular Tissue, &c.....	17	27	24	17	Disease of Brain, &c.....	127	164	173	152
XII. Malformations.....	54	46	52	56	Pericarditis.....	22	26	27	34
XIII. Premature Birth & Debility.....	246	301	336	292	Aneurism.....	19	16	24	16
XIV. Atrophy.....	186	255	390	288	Disease of Heart.....	376	530	522	429
XV. Age.....	519	651	957	527	Laryngitis.....	27	33	71	44
XVI. Sudden.....	82	93	225	162	Bronchitis.....	591	892	1,642	766
XVII. Violence, Privation, Cold, and Intemperance.....	328	436	529	412	Pleurisy.....	43	43	76	36
					Pneumonia.....	1,131	1,101	1,743	963
I. Small Pox.....	106	42	372	413	Asthma.....	190	813	428	146
Measles.....	927	105	881	218	Disease of Lungs, &c.....	145	186	184	109
Scarlatina.....	269	322	747	1,765	Teething.....	113	103	141	91
Whooping Cough.....	557	368	426	472	Quincy.....	10	14	34	20
Croup.....	82	65	116	62	Gastritis.....	10	28	23	26
Thrush.....	46	61	52	48	Enteritis.....	114	112	135	96
Diarrhoea.....	193	331	400	375	Peritonitis.....	45	55	86	62
Dysentery.....	25	43	91	74	Ascites.....	29	26	36	28
Cholera.....	11	15	12	468	Ulceration (of Intestines, &c.).....	35	36	31	30
Influenza.....	20	66	1,161	24	Hernia.....	22	47	48	46
Purpura and Scurvy.....	3	6	12	8	Ileus.....	16	34	44	28
Ague.....	8	5	17	14	Intussusception.....	6	9	10	9
Remittent Fever.....	12	17	31	39	Stricture of the Intestine Canal.....	12	8	11	11
Infantile Fever.....	10	5	9	12	Dis. of Stomach, &c.....	71	101	98	86
Typhus.....	358	619	1,279	883	Disease of Pancreas.....	1	3	1	..
Metria, or Puerperal Fever, see Childbirth.....	..	..	..	100	Hepatitis.....	54	50	58	45
Rheumatic Fever, see Rheumatism.....	..	..	..	13	Jaundice.....	29	37	30	36
Erysipelas.....	77	106	176	126	Disease of Liver.....	127	194	177	147
Syphilis.....	31	32	32	34	Disease of Spleen.....	4	4	1	4
Noma or Canker, see Mortification.....	2	3	11	..	Nephritis.....	11	1	7	2
Hydrophobia.....	..	..	..	..	Nephra (or Bright's Disease).....	..	..	..	40
II. Hamorrhage.....	35	43	62	42	Ischuria.....	..	1	6	1
Dropsy.....	182	216	248	228	Diabetes.....	12	3	8	13
Abscess.....	20	18	22	27	Stone.....	11	8	10	4
Ulcer.....	15	15	18	17	Cystitis.....	6	3	9	6
Fistula.....	3	8	5	2	Stricture of Urethra.....	20	18	15	10
Mortification.....	27	47	43	42	Dis. of Kidneys, &c.....	80	107	135	65
Cancer.....	207	219	214	240	IX. Parametria.....	7	6	5	5
Gout.....	18	14	17	7	Ovarian Dropsy.....	8	7	9	8
					Childbirth, see Metria.....	95	163	170	63
					Dis. of Uterus, &c.....	31	51	38	30
					X. Arthritis.....	8	3	5	3
					Rheumatism.....	46	67	65	69
					Disease of Joints, &c.....	40	55	69	33
					XI. Carbuncle.....	3	1	5	4
					Phlegmon.....	1	9	8	5
					Disease of Skin, &c.....	13	17	11	8
					XVII. Intemperance.....	23	24	28	13
					Privation.....	6	15	12	14
					Want of Breast Milk, see Privation.....	..	..	..	35
					Neglect.....	..	..	..	..
					Cold, see Privation.....	..	..	..	..
					Poison.....	..	..	..	24
					Burns and Scalds.....	..	..	..	63
					Hanging, &c.....	..	..	..	2
					Drowning.....	..	..	..	8
					Fractures and Contusions.....	299	397	489	131
					Wounds.....	..	..	..	31
					Other Violence.....	..	..	..	11
					Causes not specified.....	207	235	34	..

* The mortality of the district of Lewisham, and sub-district of Hampstead, was included in the Metropolitan returns at the commencement of 1847, for the first time. Therefore the deaths for previous years are not contained in the above table. In the quarters ending December they were respectively (1841) 127, (1842) 118, (1843) 159, (1844) 163, (1845) 143, (1846) 188.

† Under the head of "sudden deaths" are classed not only deaths described as sudden, of which the cause has not been ascertained or stated; but also all deaths returned by the Coroner in vague terms, such as "found dead," "natural causes," &c. &c.

‡ In the years previous to 1848, "Worms" and "Infantile Fever" were classed together. The former is now placed to diseases of stomach, &c.

QUARTERLY METEOROLOGICAL TABLE, Compiled from the Weekly Tables furnished to the Registrar-General by the Astronomer Royal.																														
1849. Weeks ending	Phases of the Moon.	THERMOMETERS.										WIND.				Deaths at Three 15 th of exclusive of violent and sudden Deaths.	Deaths from all causes, exclusive of Violent and sudden Deaths.													
		Mean. of the 13 days.	Mean reading of the barometer from 42 observations weekly, corrected and re- duced to 32 degrees Fahrenheit.	Dew Point.		Self-Registering.		Difference between the Water at Greenwich by the Self-Registering thermometer and air thermometer read at 9 o'clock.		Difference between the mean temperature of the week, and the mean temperature of the same week on an average of 7 years (1841-47).	General Direction.	Greatest pressure in the week.	The amount of Horizontal movement of the air in each week.	Rain in inches [7 days.]	Mean amount of Cloud, 0-10															
				Highest.	Lowest.	Highest.	Lowest.	Mean of 7 observations.	Mean of 7 observations.									Mean of 7 observations.	Mean of the least on each day, 7 observations.	Mean of the greatest on each day, 7 observations.										
																					During the week.	During the week.	Of the lowest on each day from 7 observations.	Of the highest on each day from 7 observations.	Mean of 42 differences.					
October	7 th 1 st qr., Oct. 5 th ..	29.796	73.644	2.68	53.17	16.8	60.3	55.0	91.8	82.4	34.0	46.1	53.9	57.1	5.3	9.9	1.7	+ 7.5	Variable	3.6 to 0.2	665	73.0.89	554	375	153	1088	525	269	132	983
"	14 th Full, 12 th ..	29.824	69.240	5.59	8.45	14.7	52.1	47.1	87.0	71.6	33.2	40.2	58.6	55.5	5.1	9.6	2.4	+ 0.9	S.W. & N.	4.0 to 0.2	1010	6.96.42	520	310	138	965	520	310	138	965
"	21 st Last qr., 19 th ..	29.632	55.133	8.49	8.38	9.10	44.7	41.5	64.4	54.4	31.0	35.4	52.0	49.3	3.1	6.2	1.5	- 3.6	N.	4.5 to 0.4	1075	9.96.81	515	301	150	966	515	301	150	966
"	28 th New, 27 th ..	29.467	60.286	6.57	5.43	3.13	7.51	47.1	75.1	63.9	30.0	38.2	49.8	47.1	4.1	8.9	1.6	+ 6.3	S.W. & S.W.	10.0 to 0.7	1590	6.1.35	560	356	171	1087	560	356	171	1087
Nov.	4 th 1 st qr., Nov. 4 th ..	29.423	57.380	7.52	8.82	14.6	44.9	41.5	73.0	58.1	27.7	34.0	48.1	45.9	3.3	6.6	1.0	- 1.5	Variable	3.6 to 0.2	665	73.0.89	554	375	153	1088	554	375	153	1088
"	11 th Full, 11 th ..	29.872	66.955	9.48	4.31	8.16	6.40	35.0	57.5	54.9	24.0	30.3	42.3	39.7	5.3	8.7	1.8	- 5.7	S.W. & N.	27.0 to 3.3	1070	5.0.11	561	379	187	1140	561	379	187	1140
"	18 th Last qr., 17 th ..	30.095	64.297	9.48	0.36	3.11	7.42	37.0	58.8	52.3	23.5	29.9	..	\$39.4	5.1	7.9	3.1	- 1.9	N.S.W.; S.W.	3.5 to 0.2	1005	7.3.0.08	539	397	217	1144	539	397	217	1144
"	25 th New, 24 th ..	29.580	57.338	45.17	36.6	15.1	45.5	39.9	64.7	57.8	24.5	31.6	..	..	5.5	10.0	1.6	+ 2.0	Variable	9.0 to 0.8	1450	5.5.0.29	594	368	221	1171	594	368	221	1171
Dec.	2 nd 1 st qr., Dec. 3 rd ..	29.740	56.833	3.22	34.2	10.3	46.7	42.6	66.0	56.9	30.5	39.1	..	..	4.3	7.2	1.8	+ 3.3	S.W.	8.0 to 1.0	1685	77.0.86	542	385	195	1192	542	385	195	1192
"	9 th Full, Dec. 3 rd ..	29.468	58.533	0.63	4.42	5.10	49.0	44.4	63.2	56.9	29.5	38.8	45.1	41.9	4.5	6.4	2.5	+ 8.8	S.W.	12.0 to 1.4	2040	73.0.74	602	325	189	1116	602	325	189	1116
"	16 th Full, 10 th ..	29.880	62.437	8.55	2.44	4.10	8.50	45.9	75.0	60.7	34.0	37.7	47.5	45.1	4.2	7.9	2.0	+ 6.2	S.S.E.	5.0 to 0.3	1145	5.9.0.92	575	352	179	1080	575	352	179	1080
"	23 rd Last qr., 17 th ..	30.017	62.032	4.42	6.31	2.11	4.37	33.2	62.8	49.3	18.0	36.3	44.0	40.8	4.3	8.4	1.8	- 2.0	E.	2.3 to 0.1	540	5.3.0.07	564	312	158	1069	564	312	158	1069
"	30 th New, 24 th ..	29.944	62.255	6.44	9.36	0	8.9	41.2	57.5	51.4	22.0	31.0	39.3	34.6	2.8	4.8	1.3	+ 3.1	S.W. & N.	2.6 to 0.2	765	8.1.0.44	641	404	238	1284	641	404	238	1284
Mean, Highest, or Lowest of the 13 weeks.		29.747	73.622	4.92	7.39	9.12	46.6	42.2	91.8	59.3	18.0	35.4	48.7	44.0	4.4	7.9	1.9	+ 1.8	S.W.	12.0 to 0.5	1133	6.37.24	7292	4496	2419	12313	7292	4496	2419	12313

* Mean of 3 days.

† Mean of 2 days.

‡ Mean of 10 weeks, and which requires a correction of +1° 2' on account of the loss of the 3 weeks' observation.

§ Mean of 3 days.

¶ Mean of 11 weeks, and which requires a correction of -0° 4' for loss of observation, and one of +1° 3' for index error.

** Deaths enumerated under the heads "violent" and "sudden," chiefly consist of cases returned by the Coroner, many of which are registered, not when they occur, but at uncertain periods; and they are therefore excluded from this comparison of weeks.

†† Mean of 2 days.

‡‡ Mean of 10 weeks, and which requires a correction of +1° 2' on account of the loss of the 3 weeks' observation.

§§ Mean of 3 days.

¶¶ Mean of 11 weeks, and which requires a correction of -0° 4' for loss of observation, and one of +1° 3' for index error.

** Deaths enumerated under the heads "violent" and "sudden," chiefly consist of cases returned by the Coroner, many of which are registered, not when they occur, but at uncertain periods; and they are therefore excluded from this comparison of weeks.

REMARKS ON THE WEATHER DURING THE QUARTER ENDING
DECEMBER 31st, 1848.

By JAMES GLAISHER, Esq., of the Royal Observatory, Greenwich.

The weather during the past quarter has been variable. The changes of temperature have been frequent and great; there has been an unusually large number of exhibitions of the Aurora Borealis, and the magnetic instruments have been greatly disturbed. The amount of electricity in the atmosphere has been small, many days together having passed without the instruments at Greenwich being affected.

From the 1st of October to the 10th, the excess of temperature above the average of 7 years was 6°6; the greatest daily excess was 12°3 on the 7th. Between the 11th and the 21st the temperature was 4°5 below the average. On the 18th it was 10° in defect. From October 22nd to October 30th it was 5°3 in excess; the greatest was 7°7 was on the 27th. From October 31st to November 16th, the temperature was mostly below the average, its mean defect was 4°2, its greatest within the period was 10°2 on the 4th. From November 17th to December 19th the temperature exceeded the average by 4°8; on December 7th the excess was 12°4; on the 8th was 15°7; on the 9th was 14°4; and on the 10th was 10°1. From December 20th to December 24th, the defect was 6°2; from December 25th to December 29th the excess was 5°8, and it was 2°3 below the average on December 30th and 31st.

The fall of rain during the year 1848 at Greenwich was 31·9 inches; in 1841 it was 33·3 inches; in 1842 it was 22·6 inches; in 1843 it was 24·5 inches; in 1844 it was 25 inches; in 1845 it was 22·3 inches; in 1846 it was 25·3 inches; and in 1847 it was 17·6 inches. The mean of these values is 24·4 inches; so that the excess of the fall of rain this year over the average from the preceding seven years is 7·5 inches.

At Beckington it was 43·16 inches; in 1845 it was 24·94 inches; in 1846 it was 32·30 inches; and in 1847 it was 28·74. In 1845 it fell on 134 days; in 1846 on 168 days; in 1847 on 151 days; and in 1848 on 219 days.

At St. John's Wood, London, the fall exceeded the average from 10 years, by 5·05 inches.

At Aylesbury it fell on 174 days, amounting to 34·68 inches, exceeding the average from the preceding six years, by 9·5 inches.

At Empingham it amounted to 30·36 inches, which is the largest fall since 1830.

At Derby it was 40·07 inches, exceeding the average from the preceding four years by more than 10 inches, and by 12 inches the average from 20 years.

At Leeds it was 37·86 inches, having fallen on 244 days; in the year 1846 it fell on 218 days, the amount was 25·67 inches; in 1847 it fell on 174 days, and the amount was 28·442 inches.

At Hereford it was 46·41 inches. The average fall from a long series of years is rather more than 30 inches.

The fall of rain during the year 1848 all over the country was about one-third larger than the average fall, and this excess fell during the first three quarters. The fall in the last quarter was about its average value at most places.

QUARTERLY METEOROLOGICAL TABLE.

NAMES OF THE PLACES.	Mean Pressure of the Atmosphere at the level of the Sea.	Mean Temperature of the Air.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Mean Daily Range of Temperature.	Range of the Ther- mometer Readings during the Quarter.	Mean of the Dew Point.	WIND.		Mean amount of Cloud 0-10.	RAIN.		Mean Weight of Va- pour in a Cubic Foot of Air.	Mean additional weight required to saturate a cubic Foot of Air.	Mean Degree of Hu- midity.	Mean Amount of Water in a Ver- tical Column of Atmosphere.	Mean Weight of a Cubic Foot of Air.	Height of (Water of the level of the Sea.
								General Direction.	Mean estimated Strength 0-6.		Number of Days on which it fell.	Amount Col- lected.						
Guernsey.....	29.701	56.4	70.5	30.0	7.0	40.0	42.5	1.7	W. by N. S. & S.W.	6.6	59	59	In. 15.7	Gr. 3.7	0.5	0.568	4.4	123
Helston.....	29.582	48.3	65.0	31.0	9.7	34.0	45.3	1.4	S. & S.W.	7.4	61	61	12.5	3.7	0.5	..	587	106
Falmouth.....	..	47.7	69.0	30.0	10.7	39.0	..	0.9	S.W.	7.2	53	53	13.1	..	..	..	..	..
Turo.....	..	48.4	68.0	33.0	9.7	31.0	..	..	..	7.2	53	53	15.0	..	..	..	..	..
Torquay.....	29.786	46.6	69.0	24.2	12.1	43.8	42.9	..	N.	5.1	50	50	11.4	3.3	0.8	0.792	4.0	541
Exeter.....	..	41.2	67.0	25.0	10.3	42.0	..	..	..	..	..	..	9.4	3.4	0.6	0.857	4.0	541
Chichester.....	..	44.2	67.0	25.0	10.3	42.0	..	..	..	..	..	..	9.4	3.4	0.6	0.857	4.0	541
Southampton.....	29.641	46.2	70.0	27.0	10.7	43.0	43.6	0.9	Variable	6.5	52	52	11.8	3.4	0.3	0.925	4.1	543
Beckington.....	29.658	43.2	72.0	21.0	11.9	51.0	41.1	1.2	Variable	6.3	56	56	11.7	3.2	0.3	0.858	3.8	542
Royal Observatory.....	29.653	45.9	74.0	21.2	14.9	52.2	42.1	..	S.W.	6.9	50	50	7.3	3.3	0.6	0.881	4.0	540
Maldenstone Hill, Greenwich.....	29.669	45.5	70.0	24.7	9.4	43.3	41.6	..	S.W. & N.	6.5	41	41	7.0	3.3	0.5	0.900	3.9	542
Lewisham.....	29.643	43.3	72.5	21.0	13.0	52.0	42.9	..	S.W.	7.2	60	60	10.1	3.3	0.2	0.933	3.9	540
Latimer Rectory.....	29.629	43.3	74.0	22.0	13.3	50.5	42.0	1.2	S.	6.3	39	39	7.6	3.1	0.5	0.936	3.6	538
Aylesbury.....	29.629	43.3	74.0	22.0	13.3	50.5	42.0	1.2	S.E.	6.4	51	51	6.3	3.2	0.4	0.936	3.6	538
Stone Observatory.....	29.625	44.0	69.3	28.0	10.1	46.9	39.0	1.2	S.W.	7.3	50	50	6.3	3.2	0.4	0.981	3.6	538
Hartwell House.....	29.672	45.0	76.0	22.0	14.5	54.0	42.3	2.8	S.	5.5	44	44	6.3	3.4	0.6	0.910	4.0	539
Saffron Walden.....	..	44.5	..	..	..	..	..	..	S.W.	..	..	..	12.1	..	..	..	..	..
Pool Cottage, Hereford.....	29.581	44.3	70.0	21.5	10.2	48.5	42.3	..	S.W.	6.4	52	52	7.3	3.3	0.3	0.914	4.0	543
Cardington.....	29.608	44.7	71.0	26.0	8.8	45.0	41.4	..	S.W.	..	54	54	9.4	3.3	0.4	0.851	3.9	543
Norwich.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Empingham.....	29.711	44.2	76.0	22.0	11.0	54.0	..	..	S.W.	6.3	59	59	8.1	..	..	..	..	156
Leicester.....	29.589	43.6	68.0	23.0	11.0	45.0	42.0	..	S.W.	6.7	65	65	7.3	3.2	0.3	0.920	3.9	540
Derby.....	29.595	44.6	71.0	22.7	9.0	48.3	40.4	..	S.W.	7.0	51	51	7.6	3.1	0.3	0.957	3.7	542
Highfield House, Notts.....	29.597	45.3	67.8	29.4	7.3	38.4	39.6	0.9	Variable	6.7	51	51	7.6	3.1	0.5	0.900	3.6	544
Liverpool Observatory.....	29.626	43.5	72.5	19.0	11.7	53.5	39.5	..	..	7.2	60	60	7.6	3.0	0.5	0.954	3.6	543
Wakefield.....	29.626	43.0	67.1	20.5	11.2	46.6	38.8	1.0	S.W.	..	..	..	14.1	3.0	0.5	0.960	3.5	534
Stonyhurst Observatory.....	29.639	42.5	67.5	19.0	10.6	48.5	38.5	1.4	N.	..	..	..	8.6	3.0	0.5	0.929	3.5	545
Leeds.....	29.602	41.7	70.0	22.0	9.9	43.0	..	..	S.W. & N.W.	..	..	..	7.7	3.2	..	..	..	50
York.....	..	44.6	62.5	12.4	6.6	35.0	40.6	3.0	S.	..	..	..	14.1	3.2	0.5	0.847	3.7	541
Whitehaven.....	29.634	42.5	69.6	72.0	8.8	43.2	38.2	1.7	S.W.	6.1	53	53	7.2	2.9	0.4	0.864	3.4	540
Durham.....	29.552	43.5	68.0	25.0	11.0	43.0	41.1	..	S.W.	..	..	..	10.4	3.2	0.3	0.907	3.8	542
Newcastle.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Number of Columns.....	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

The mean of the numbers in the first column is 29·608 inches, and this value may be considered as that of the pressure of dry air for England during the quarter ending 1848, Dec. 31. The differences between this number and the separate results contained in the first column, show the probable sums of the errors of observation and reduction, the latter arising partly from erroneously assumed altitudes, and partly from the index errors of the instruments not having been determined. In most cases, the sums of these errors are small.

The mean of the numbers in the second column, for those places situated in Cornwall and Devonshire is 47°9; for those places situated south of latitude 52°, including Chichester and Hartwell, is 44°6; for those places situated between the latitudes of 52° and 53°, including Saffron Walden and Highfield House, is 44°2; for those places situated between the latitudes 53° and 54°, including Liverpool and Whitehaven, is 43°3; and for Durham and Newcastle is 43°0. These values may be considered as those of the mean temperature of the air for those parallels of latitude during the quarter ending Dec. 31, 1848.

The average daily range of the temperature of the air in Cornwall and Devonshire was 9°6; at Liverpool and Whitehaven was 6°9; south of latitude 52° was 11°6; between the latitudes of 52° and 54° was 9°6; and at Durham and Newcastle was 8°9.

The greatest mean daily ranges of the temperature of the air took place at Greenwich, Hartwell, Latimer Rectory, and Aylesbury respectively; and the least occurred at Whitehaven, Guernsey, Torquay, Liverpool, and Truro respectively.

The highest thermometer readings during the quarter were 76° at Hartwell and Leicester, 74° at Greenwich and Aylesbury. The lowest thermometer reading was 20°5 at Stonyhurst, and readings about 21° occurred at several places. The extreme range of temperature of the air during the quarter was therefore about 55°.

The average quarterly range of the reading of the thermometer in air in Cornwall and Devonshire was 37°0; at Liverpool and Whitehaven was 36°9; and the mean of the numbers of all the remaining places is 48°7.

The mean temperature of the dew point in Cornwall and Devonshire was 43°5, at all places south of 53° was 41°6, and it was 39°6 at places north of 53°0.

The great mass of air has passed from the S.W. at all places except Exeter and Stonyhurst, at both of which places it seems to have passed from the N.

From the numbers in the tenth column the distribution of cloud has been the same at all places, and such as to have covered somewhat more than three-fifths of the whole sky.

Rain has fallen on the greatest number of days during the quarter at Highfield House, Stonyhurst, Derby, Leeds, Helston, and Latimer, and the average number at those places was 63. It fell on the least number of days at Aylesbury, Hereford, Newcastle, and Saffron Walden, and the average number at these places was 41. The stations at which the largest falls have taken place were Guernsey, Truro, Wakefield, Whitehaven, Falmouth, and Helston. The falls were smallest in amount at Saffron Walden, Stone, Hartwell, and Liverpool. The average fall in the counties of Cornwall and Devonshire was 12·3 in., and at all other places except Southampton, Beckington, Hereford, Stonyhurst, and York, was 8·5 in.

The number in columns 13 to 17 show the mean values of the hygrometrical results at every station, from which we find that—

The mean weight of vapour in a cubic foot of air for all places (except Cornwall and Devonshire) in the quarter ending Dec. 31, 1848, was 3·2 grains.

The mean additional weight required to saturate a cubic foot of air in the quarter ending Dec. 31, 1848, was 0·4 grain.

The mean degree of humidity (complete saturation = 1), in the quarter ending Dec. 31, 1848, was 0·884.

The mean amount of vapour mixed with the air would have produced water, if all had been precipitated at one time on the surface of the earth, to the depth of 3·7 inches, in the quarter ending Dec. 31, 1848.

The mean weight of a cubic foot of air at the level of the sea, under the mean pressure, temperature, and humidity, at the mean height of 160 feet, in the quarter ending Dec. 31, 1848, was 541 grains.

And these values for Cornwall and Devonshire were 3·5 grains; 0·6 grain; 0·839; 4·1 inches; and 540 grains respectively.

REVENUE.

Abstract of the Net Produce of the Revenue of Great Britain in the Years and Quarters ending 5th April, 1848 and 1849; showing the Increase or Decrease thereof.—(Continued from page 93.)

Sources of Revenue.	Years ending 5th April.			
	1848.	1849.	Increase.	Decrease.
	£	£	£	£
Customs.....	17,960,275	19,129,829	1,169,554	....
Excise	12,080,482	12,650,114	569,632	....
Stamps	6,760,932	6,041,351	....	719,581
Taxes	4,347,571	4,318,903	....	28,668
Property Tax	5,459,369	5,317,244	....	142,125
Post Office.....	866,000	789,000	....	77,000
Crown Lands.....	61,000	100,000	39,000	....
Miscellaneous	148,640	143,651	....	4,989
Total Ordinary Revenue	47,684,269	48,490,092	1,778,186	972,363
China Money	455,021	84,284	....	370,737
Imprest and other Moneys .	187,235	665,293	478,058	....
Repayments of Advances....	473,616	427,761	....	45,855
Total Income.....	48,800,141	49,667,430	2,256,244	1,388,955
Deduct Decrease			1,388,955	
Increase on the Year			867,289	

Sources of Revenue.	Quarters ending 5th April.			
	1848.	1849.	Increase.	Decrease.
	£	£	£	£
Customs	4,392,650	4,593,119	200,469	....
Excise	2,002,601	1,820,575	....	182,026
Stamps	1,618,668	1,549,171	....	69,497
Taxes	143,902	148,101	4,199	....
Property Tax.....	2,041,640	2,011,519	....	30,121
Post Office.....	221,000	234,000	13,000	....
Crown Lands.....	21,000	40,000	19,000	....
Miscellaneous	56,307	98,792	42,485	....
Total Ordinary Revenue	10,497,768	10,495,277	279,153	281,644
China Money	455,021	....	....	455,021
Imprest and other Moneys	24,452	204,361	179,909	....
Repayments of Advances	74,138	87,648	13,510	....
Total Income.....	11,051,379	10,787,286	472,572	736,665
Deduct Increase			472,572	
Decrease on the Quarter				264,093

Consolidated Fund Operations.—The total income brought to this account in the quarter ending 5th April, 1849, was 10,800,390*l.* The total charge upon it was 7,462,528*l.*, leaving a surplus of 3,337,862*l.*

The probable amount of Exchequer Bills required to meet the charge on the Consolidated Fund in the quarter ending 5th April, 1849, is stated at 806,028*l.*

CORN.

Average Prices of Corn per Imperial Quarter in England and Wales, during each Week of the First Quarter of 1849; together with the Average Prices for the whole Quarter.—(Continued from p. 94.)

Returns received at the Corn Office, 1849.		Wheat.		Barley.	Oats.	Rye.	Beans.	Peas.
		Weekly Average	Aggregate Average of Six Weeks regulating Duty.	Weekly Average	Weekly Average	Weekly Average	Weekly Average	Weekly Average
Weeks ending 1849.		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
January	6	45 10	47 9	30 8	17 0	26 4	32 4	37 9
	13	45 4	47 0	29 11	17 8	27 9	32 2	35 0
	20	45 4	46 5	29 1	17 1	28 4	31 1	34 9
	27	45 3	46 0	28 10	17 0	28 11	30 3	32 8
February	3	45 1	45 7	28 10	16 11	28 5	30 3	32 6
	10	45 11	45 5	29 3	17 3	27 2	30 11	33 0
	17	47 0	45 8	29 8	17 2	26 9	29 9	34 4
	24	46 4	45 10	29 8	17 5	27 8	30 10	32 11
March	3	45 6	45 10	29 1	17 4	26 11	30 2	32 11
	10	45 1	45 10	29 0	16 11	26 11	30 1	33 1
	17	45 4	45 10	29 2	17 5	23 9	30 11	30 8
	24	44 9	45 8	28 10	17 1	26 4	28 9	31 6
	31	44 1	45 2	28 11	16 4	24 6	28 1	32 2
Average of the Quarter		45 5½	..	29 3½	17 1½	26 10¾	30 5	33 4

Foreign and Colonial Wheat and Wheat-Flour imported in each of the Months ending 5th January, 5th February, and 5th March, 1849; the Quantities Entered for Home Consumption during the same Months; and the Quantities remaining in Warehouse at the close of them.—(Continued from p. 94.)

WHEAT.

Months ending.	Imported.			Quantities entered for Home Consumption.			In Bond at the Month's end.		
	Foreign.	Colonial.	Total.	Foreign.	Colonial.	Total.	Foreign.	Colonial.	Total.
1849	qrs.	qrs.	qrs.	qrs.	qrs.	qrs.	qrs.	qrs.	qrs.
5th Jan.	410,409	8,218	418,627	37,003	7,235	44,238	546,130	1,010	547,140
5th Feb.	344,185	2,771	346,956	708,577	3,937	712,514	294,854	1,417	296,271
5th Mar.	318,047	366	318,413	406,849	365	407,214	210,521	1,418	211,939

WHEAT-FLOUR.

Months ending.	Imported.			Quantities entered for Home Consumption.			In Bond at the Month's end.		
	Foreign.	Colonial.	Total.	Foreign.	Colonial.	Total.	Foreign.	Colonial.	Total.
1849	cwts.	cwts.	cwts.	cwts.	cwts.	cwts.	cwts.	cwts.	cwts.
5th Jan.	441,786	138,176	579,912	36,141	117,405	153,546	501,890	21,173	523,063
5th Feb.	602,719	46,503	649,222	662,718	50,616	713,329	473,329	31,190	504,519
5th Mar.	228,314	2,413	230,727	345,719	9,742	355,461	368,594	24,035	392,629

CURRENCY.

BANK OF ENGLAND.

An Account, pursuant to the Act of the 7th and 8th Victoria, c. 32, for the Weeks ending on Saturday, the 6th January, the 3rd February, the 3rd March, and the 31st March, 1849.—(Continued from p. 95.)

ISSUE DEPARTMENT.

	Weeks ending,			
	6th Jan., 1849.	3rd Feb., 1849.	3rd March, 1849	31st March, 1849.
	£	£	£	£
Notes issued	28,234,740	28,330,845	28,314,555	28,407,105
Government Debt	11,015,100	11,015,100	11,015,100	11,015,100
Other Securities	2,984,900	2,984,900	2,984,900	2,984,900
Gold Coin and Bullion..	13,726,831	13,828,773	13,966,124	14,083,536
Silver Bullion	507,909	502,072	348,431	323,569
Total	28,234,740	28,330,845	28,314,555	28,407,105

BANKING DEPARTMENT.

Proprietors' Capital....	14,553,000	14,553,000	14,553,000	14,553,000
Rest	3,400,715	3,576,625	3,855,368	3,866,087
Public Deposits	8,419,046	8,922,307	6,140,572	7,880,202
Other Deposits	8,814,702	11,328,544	9,997,754	9,287,878
Seven Day and other Bills	1,012,717	1,144,824	1,128,002	1,066,369
Total	36,200,179	34,525,300	36,674,696	36,603,536
Government Securi- ties, including Dead Weight Annuities...}	13,599,597	13,882,267	14,074,183	14,072,844
Other Securities	10,825,470	10,314,654	10,795,769	11,278,918
Notes	10,935,050	9,553,460	9,942,445	10,461,195
Gold and Silver Coin ..	790,062	774,919	862,299	790,579
Total	36,200,179	34,525,300	36,674,696	36,603,536

COUNTRY BANKS.

Average Aggregate Amount of Promissory Notes of Country Banks, which have been in Circulation in the United Kingdom, distinguishing the several Banks, or Classes of Banks by which issued in each part of the Kingdom, during the weeks ending 4th November, 2nd December, 30th December, 1848, and 27th January and 24th February, 1849.—(Continued from p. 95.)

Banks.	4th Nov., 1848.	2nd Dec., 1848.	30th Dec., 1848.	27th Jan., 1849.	24th Feb., 1849.
England—Private Banks	3,918,619	3,703,724	3,500,607	3 651,107	3,667,312
Joint Stock Banks.....	2,853,763	2,739,689	2,667,114	2,629,446	2,591,145
Scotland—Chartered, Private, and Joint Stock Banks}	8,806,278	8,670,126	8,276,826	8,032,872	7,952,177
Ireland—Bank of Ireland	2,907,926	2,851,750	2,760,475	2,717,525	2,673,375
Private and Joint Stock Banks	2,118,792	2,117,300	2,027,168	1,957,214	2,113,295
Total	15,105,372	14,982,589	14,122,180	13,988,164	13,897,304

BANKRUPTCY.

An Analysis of the Bankruptcies in England and Wales, gazetted in each Month of the Quarter ending 31st March, 1849; showing the Counties and Branches of Industry in which they have occurred.—(Continued from p. 96.)

COUNTIES.	January.	February.	March.	TRADES.	January.	February.	March.
Metropolis.....	44	30	32	<i>Agriculture and connected Trades.</i>			
Bedford		3		Farmers	4	2	1
Berks	2	1	2	Agricultural Implement Makers, &c.			
Bucks.....				Corn Factors	3		3
Cambridge		1	4	Millers and Malsters	4	4	3
Cheshire	1	2	2	Hop Merchants			
Cornwall		1	1	Brewers	3	2	1
Cumberland			2	Horse and Cattle Dealers, and Woolstaplers	3	2	2
Derby	3	2		<i>Mining and connected Trades.</i>			
Devon	7	6	4	Mining Firms	2	1	
Dorset	1	1	2	Blasting Works			2
Durham.....	3	1	6	<i>Manufactures.</i>			
Essex.....	7	3	6	Woollen Manufacturers	3	2	1
Gloucester.....	5	3	3	Cotton	1	2	1
Hants.....	2	1	2	Linen			
Hereford	2		2	Silk			
Hertford		1		Printers and Dyers	2	5	4
Huntingdon		1		Lace Manufacturers	1		2
Kent	8	1	5	Hosiery			
Lancashire.....	17	22	14	Hardware	1	4	5
Leicester	1	1	1	Earthenware	1		
Lincoln		1		Glass			
Middlesex (exclusive of the Metropolis) }		1	3	Paper	1		
Monmouth.....	1		2	Builders	10	5	5
Norfolk	4	3	2	Miscellaneous Manufacturers...	6	4	6
Northampton		2		<i>Commerce.</i>			
Northumberland	1	2	4	Bankers and Merchants	11	4	4
Nottingham	3		2	Shipowners, Warehousemen, Brokers, and Wholesale Dealers generally	21	12	23
Oxford	2			<i>Retail and Handicraft Trades.</i>			
Rutland				Bakers	4	2	
Salop		2		Butchers		2	1
Somerset (including Bristol) }	6	1	5	Corn and Hay Dealers		1	1
Stafford	4	4	4	Innkeepers and Victuallers	7	12	12
Suffolk	2	3		Wine and Spirit Merchants	5	5	2
Surrey (exclusive of the Metropolis) }	1	1	1	Dealers in Grocery, Drugs, and Spices	9	11	17
Sussex	1		1	Makers of, and Dealers in, Clothing	14	16	22
Warwick	9	7	9	Makers of, and Dealers in, Furniture	4	1	2
Westmoreland				Coach Builders		4	3
Wilts		1	2	Miscellaneous	31	19	15
Worcester	3	2	2				
York (East Riding)	5	3	1				
„ (North Riding)	3	5	4				
„ (West Riding)		2	3				
Wales.....	3	2	4				
Total	151	122	138	Total.....	151	122	138